

Fig. 1

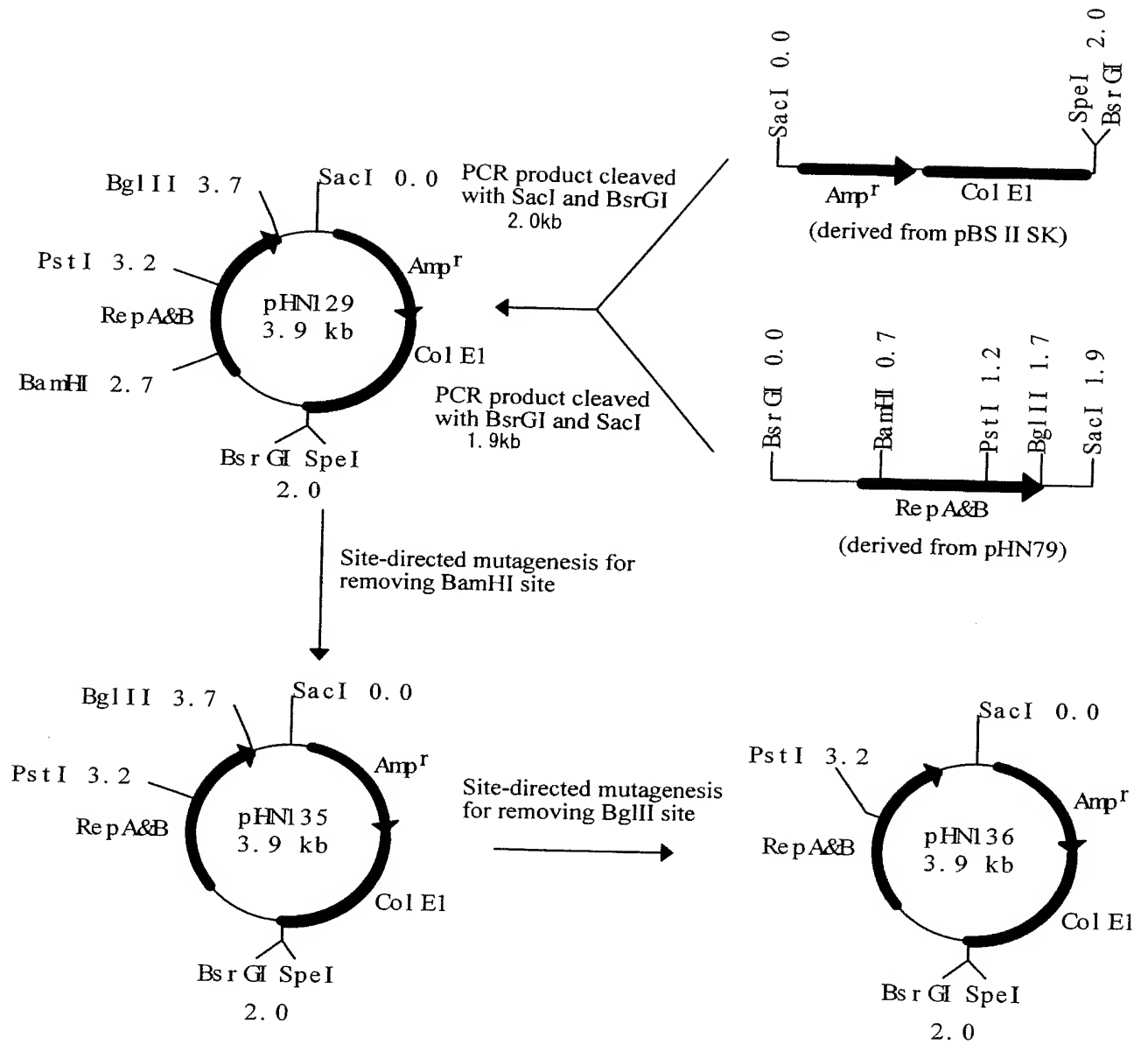


Fig. 2

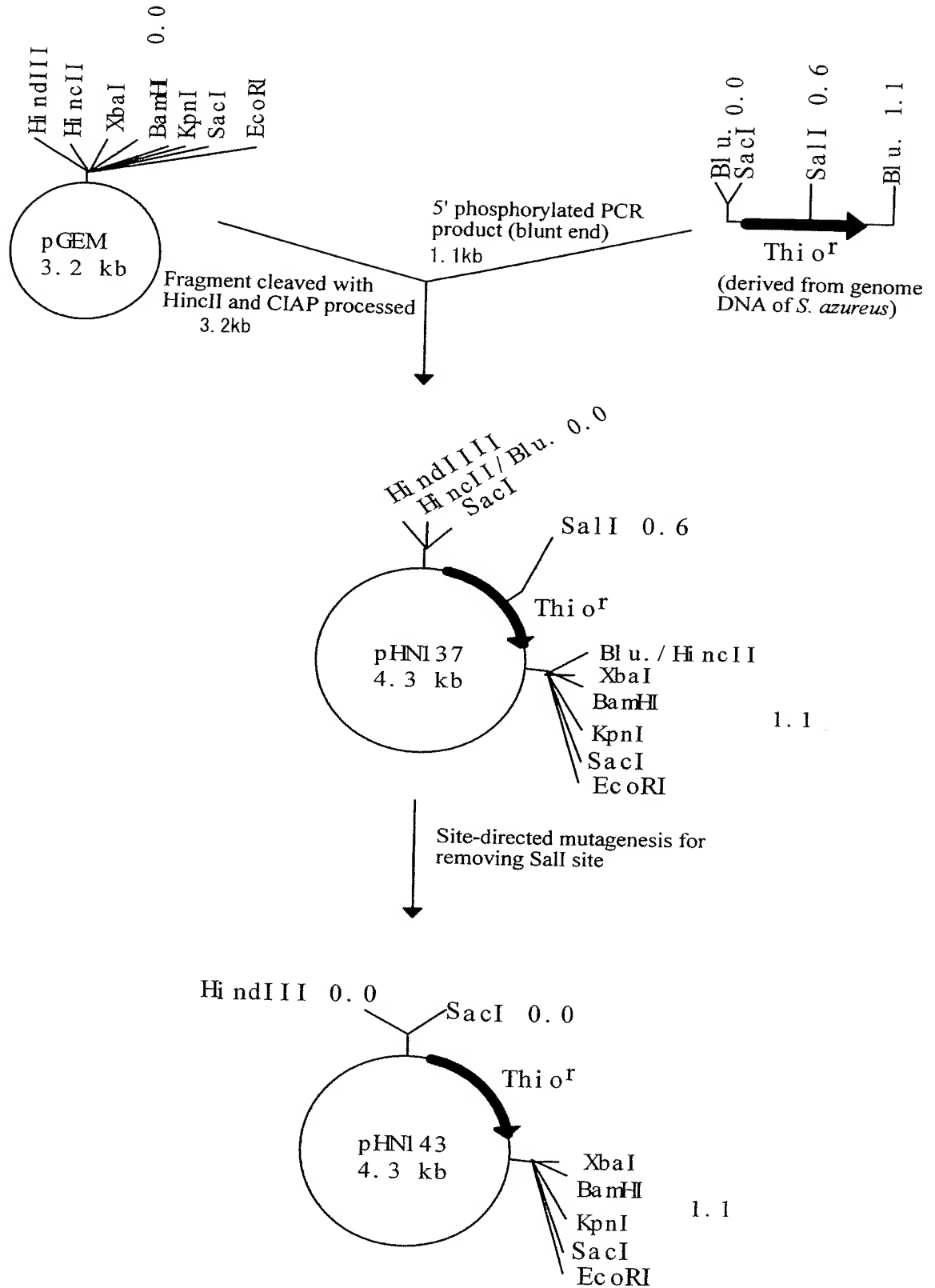


Fig. 3

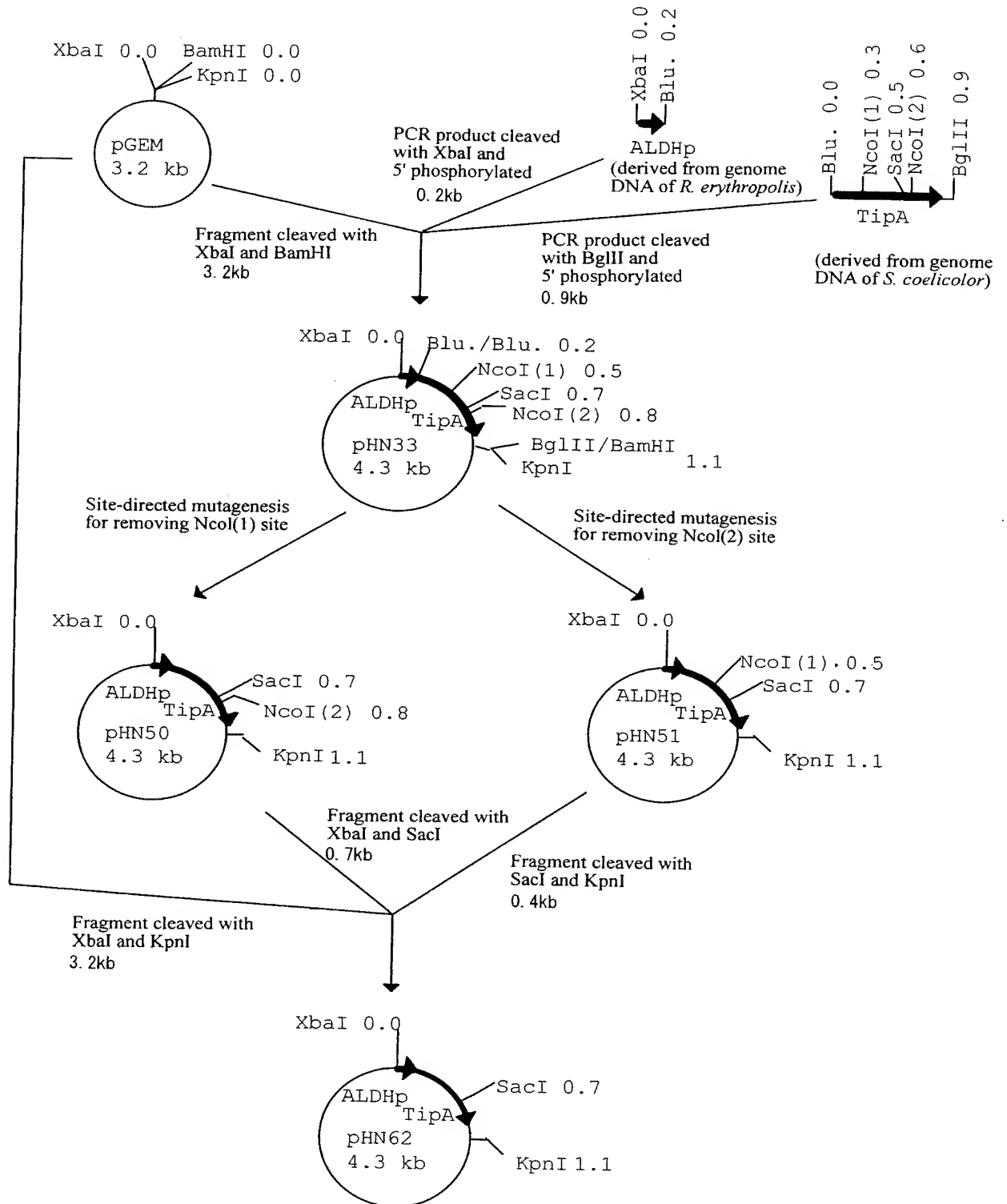


Fig. 4

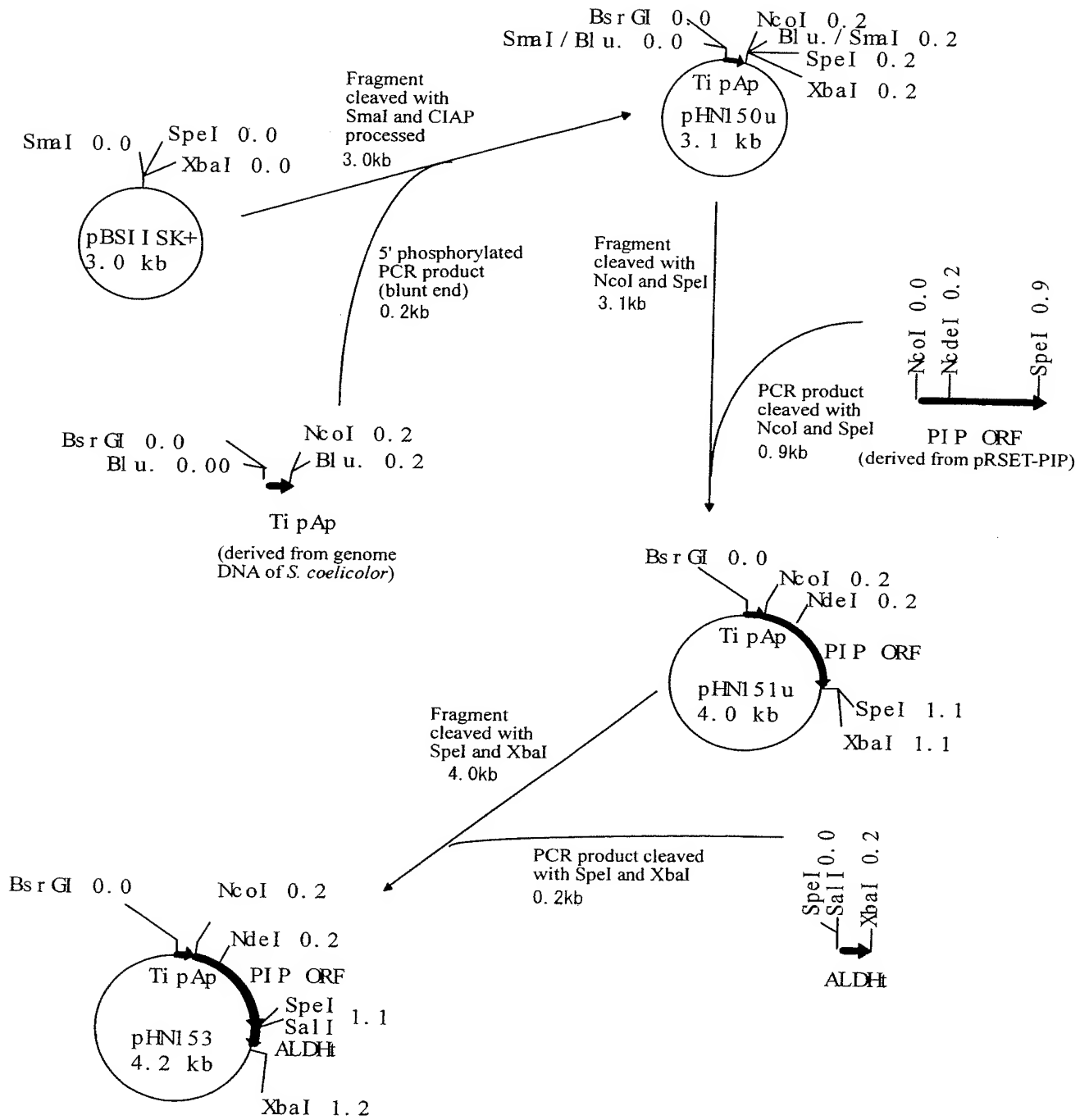


Fig. 5

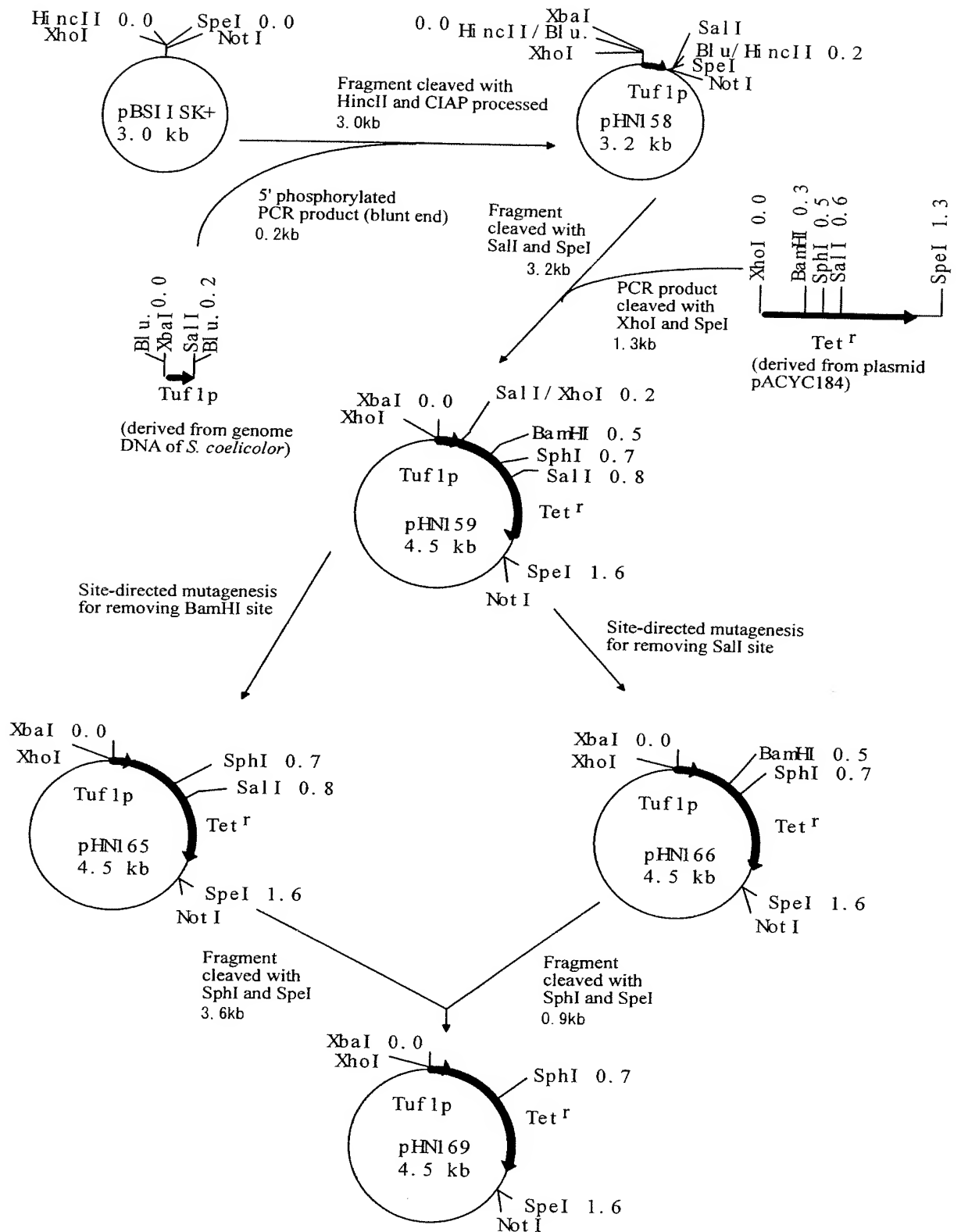


Fig. 6

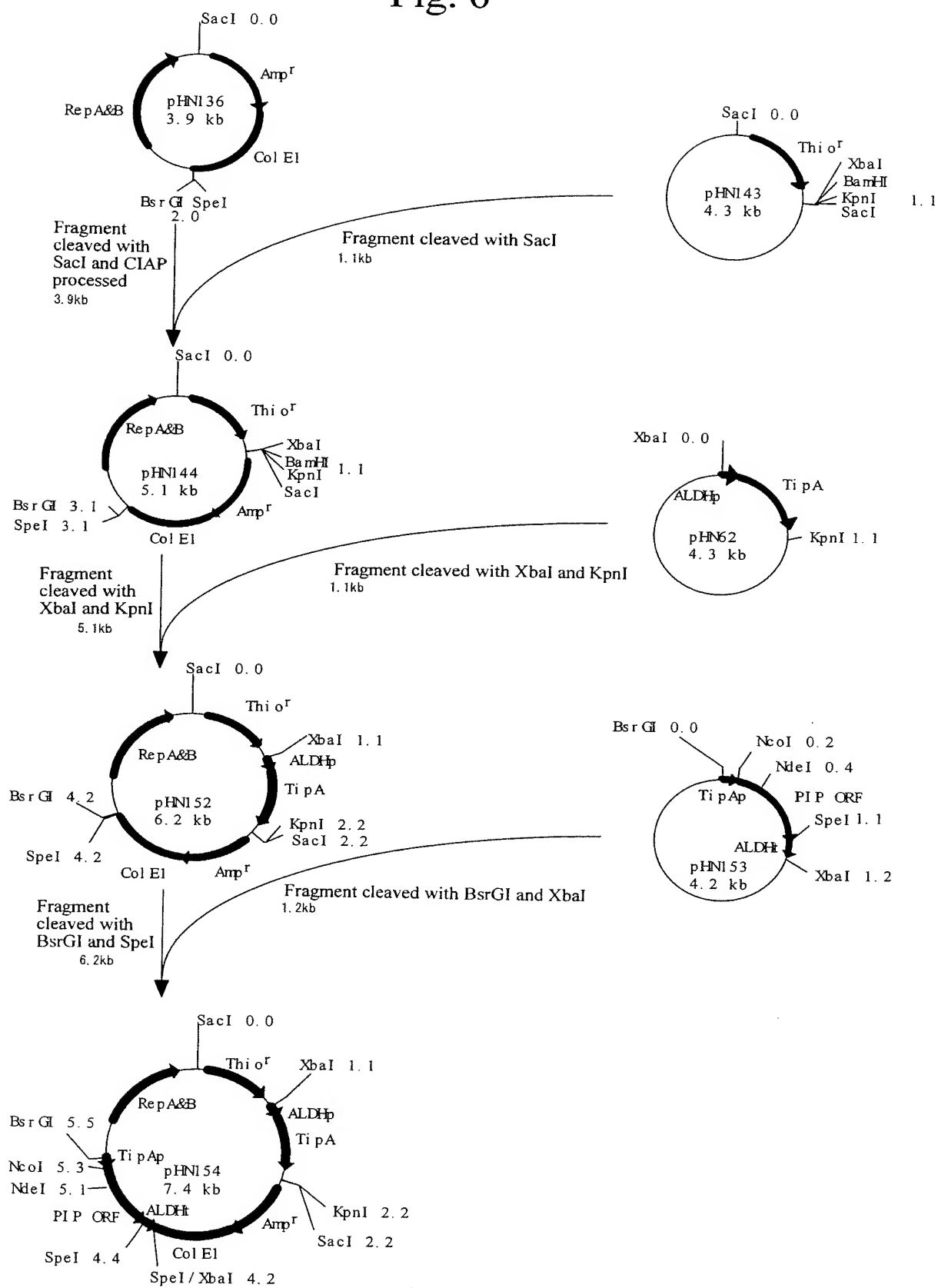


Fig. 6 (continued)

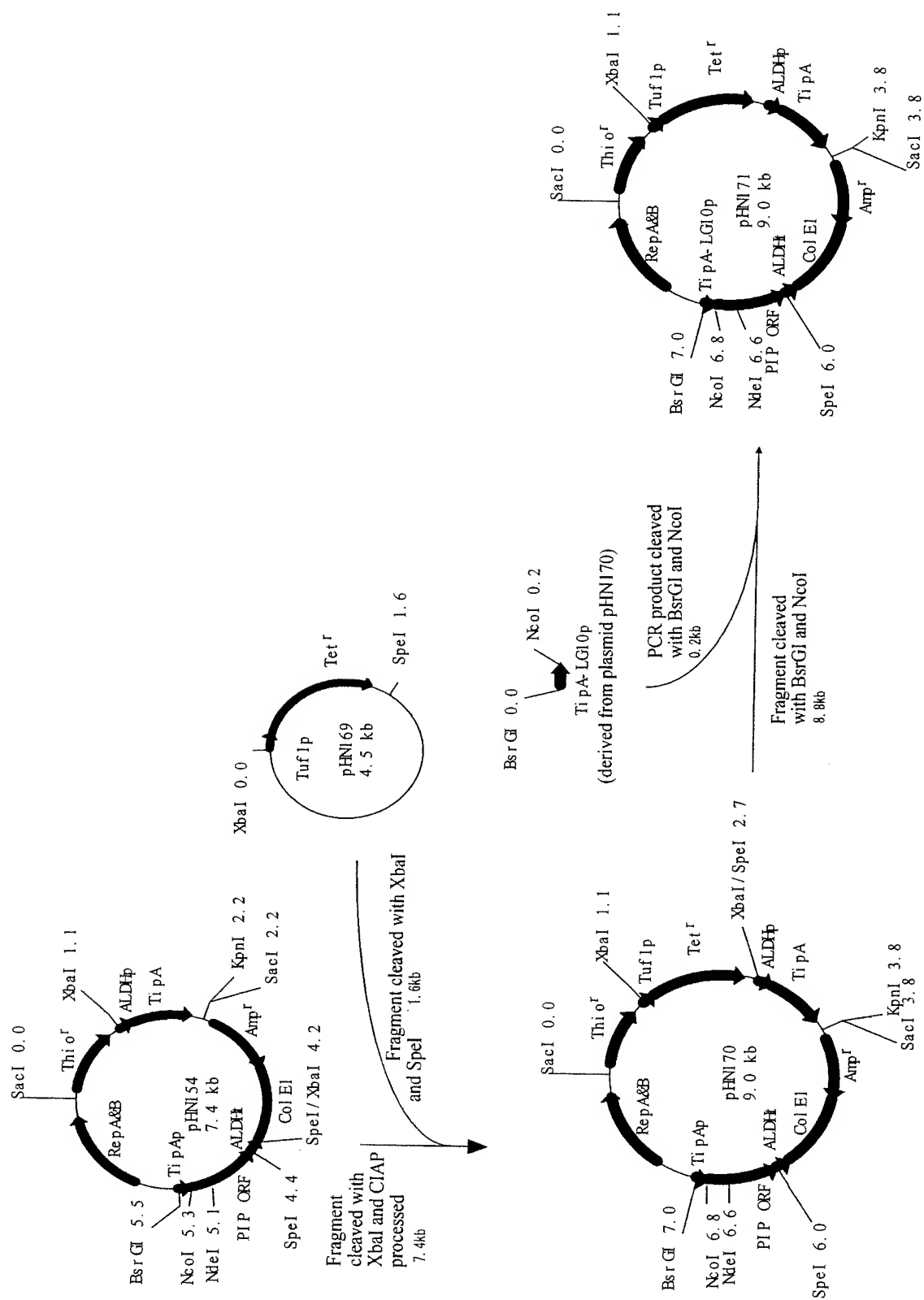


Fig. 7

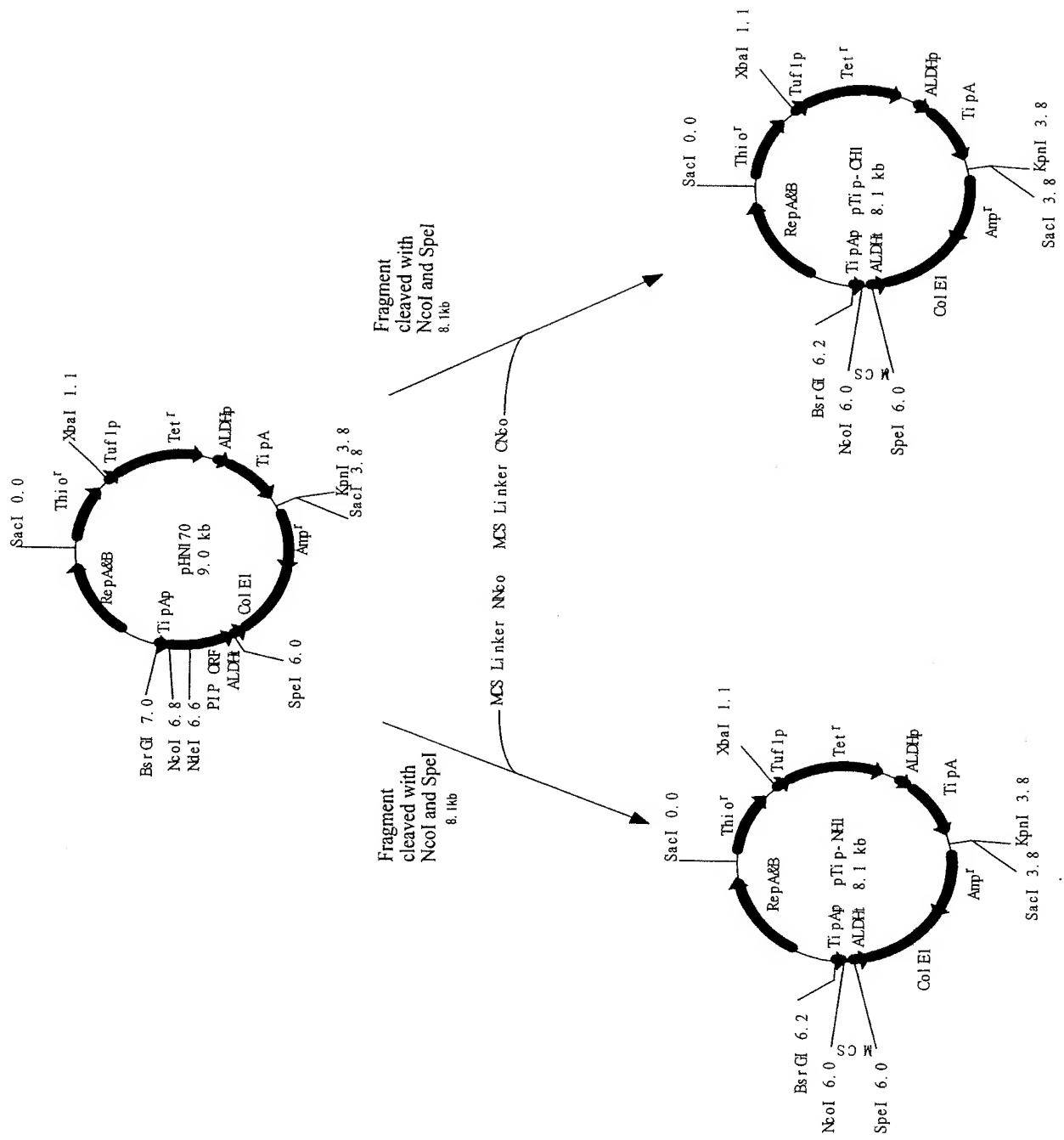


Fig. 7 (continued)

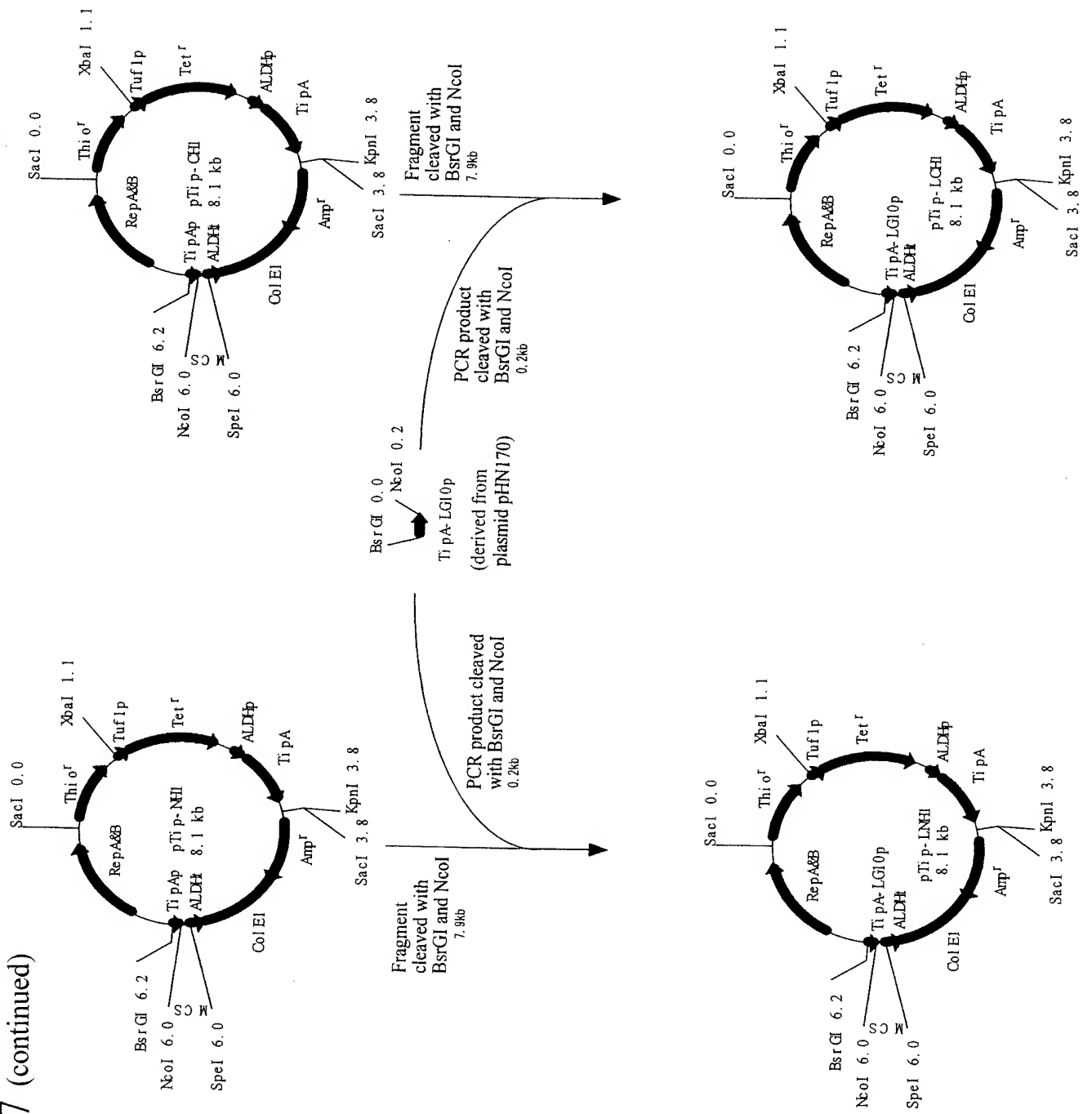
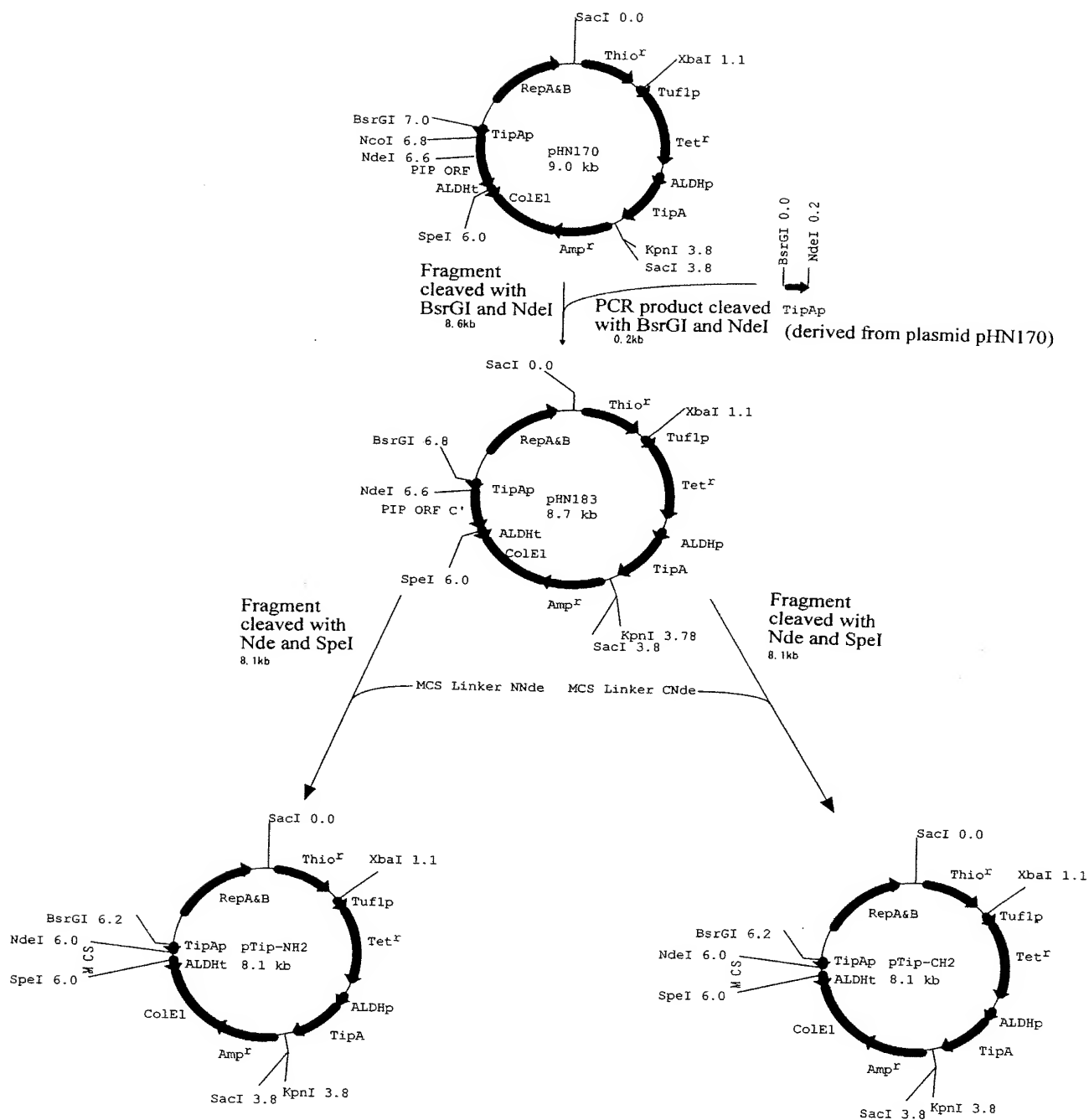


Fig. 8



8 (continued)

Diagram of the pTip-LNH2 plasmid. The plasmid is circular and contains the following elements: RepA&B, TipA, TipAp, pTip-NH2 (8.1 kb), ALDHt, AldH, and various restriction sites. The restriction sites are labeled: SacI 0.0, XbaI 1.1, TufIp, TetR, AldHp, TipA, AmpR, KpnI 3.8, ColEI, SpeI 6.0, NdeI 6.0, BsrGI 6.2, and ThioR. A fragment cleaved with BsrGI and NdeI (7.9 kb) is indicated.

Diagram of the pTip-LNH1 plasmid. The plasmid is circular and contains the following elements: RepA&B, TipA, TipAp, pTip-LNH1 (8.1 kb), ALDHt, AldH, and various restriction sites. The restriction sites are labeled: SacI 0.0, XbaI 1.1, TufIp, TetR, AldHp, TipA, AmpR, KpnI 3.8, ColEI, SpeI 6.0, NdeI 6.0, BsrGI 6.2, and ThioR. A fragment cleaved with BsrGI and NdeI (7.9 kb) is indicated.

Diagram of the pTip-LNH2 plasmid. The plasmid is circular and contains the following elements: RepA&B, TipA, TipAp, pTip-LNH2 (8.1 kb), ALDHt, AldH, and various restriction sites. The restriction sites are labeled: SacI 0.0, XbaI 1.1, TufIp, TetR, AldHp, TipA, AmpR, KpnI 3.8, ColEI, SpeI 6.0, NdeI 6.0, BsrGI 6.2, and ThioR. A fragment cleaved with BsrGI and NdeI (7.9 kb) is indicated.

Diagram of the pTip-LNH1 plasmid. The plasmid is circular and contains the following elements: RepA&B, TipA, TipAp, pTip-LNH1 (8.1 kb), ALDHt, AldH, and various restriction sites. The restriction sites are labeled: SacI 0.0, XbaI 1.1, TufIp, TetR, AldHp, TipA, AmpR, KpnI 3.8, ColEI, SpeI 6.0, NdeI 6.0, BsrGI 6.2, and ThioR. A fragment cleaved with BsrGI and NdeI (7.9 kb) is indicated.

Fig. 9a

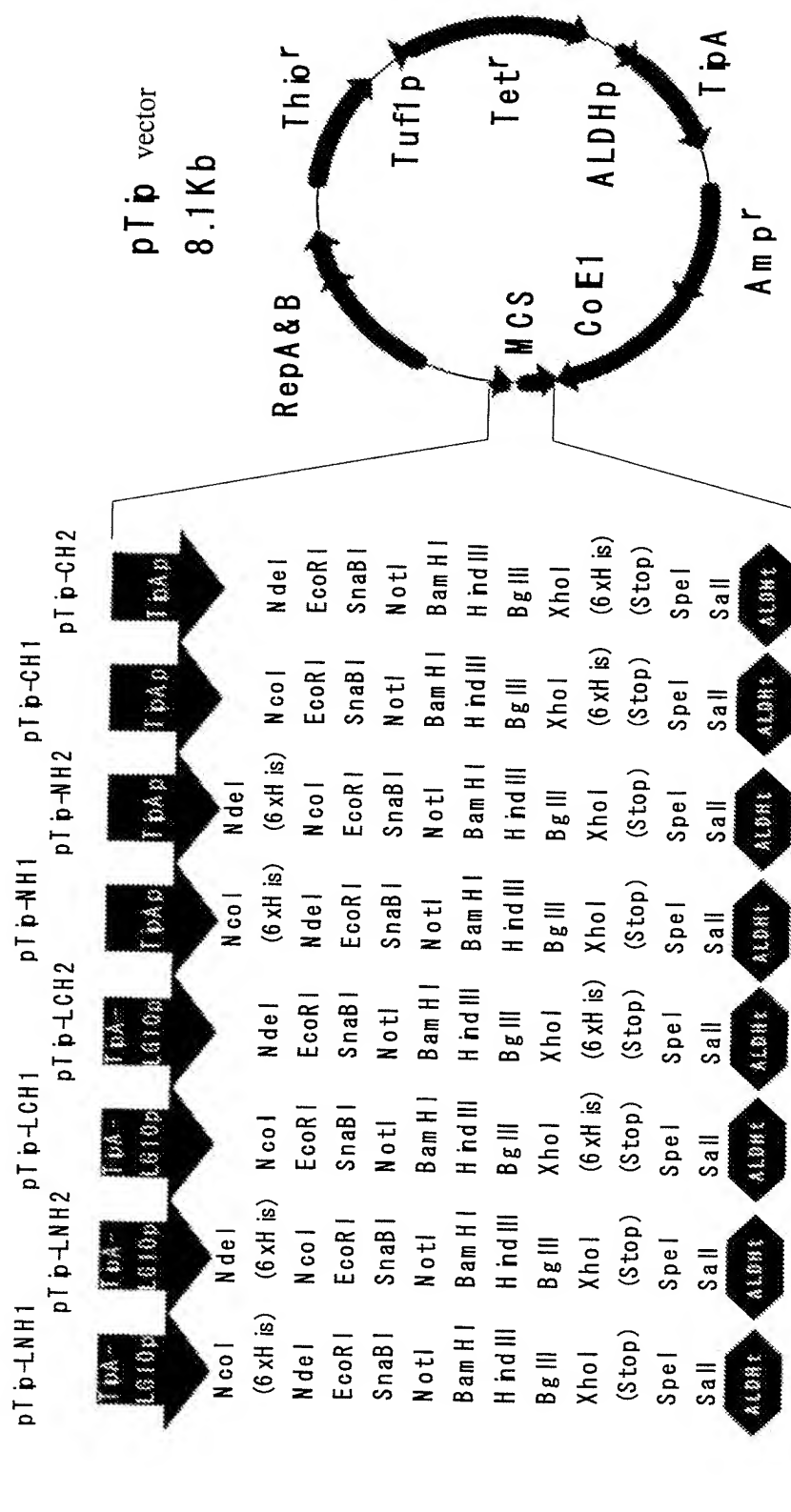


Fig. 9b

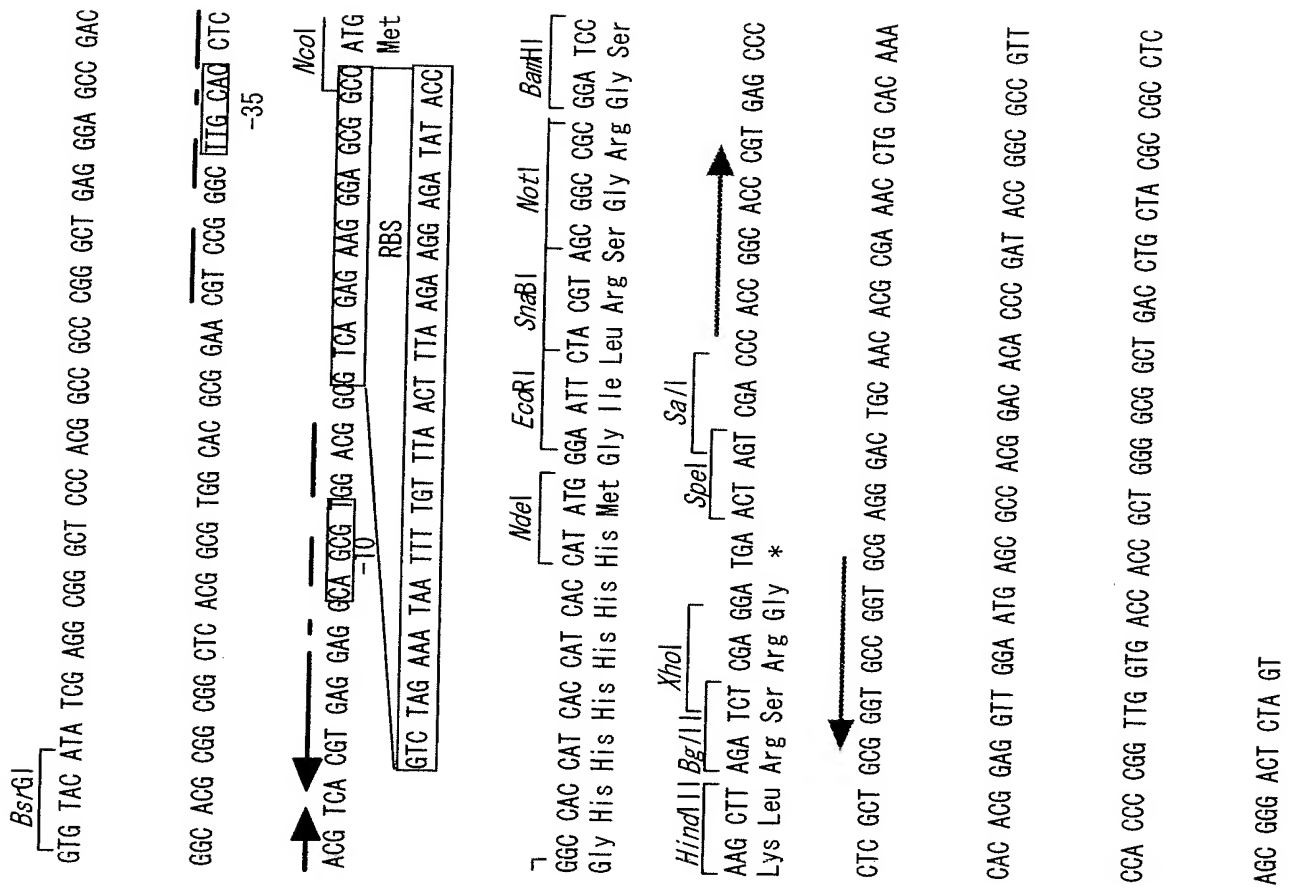


Fig. 9c

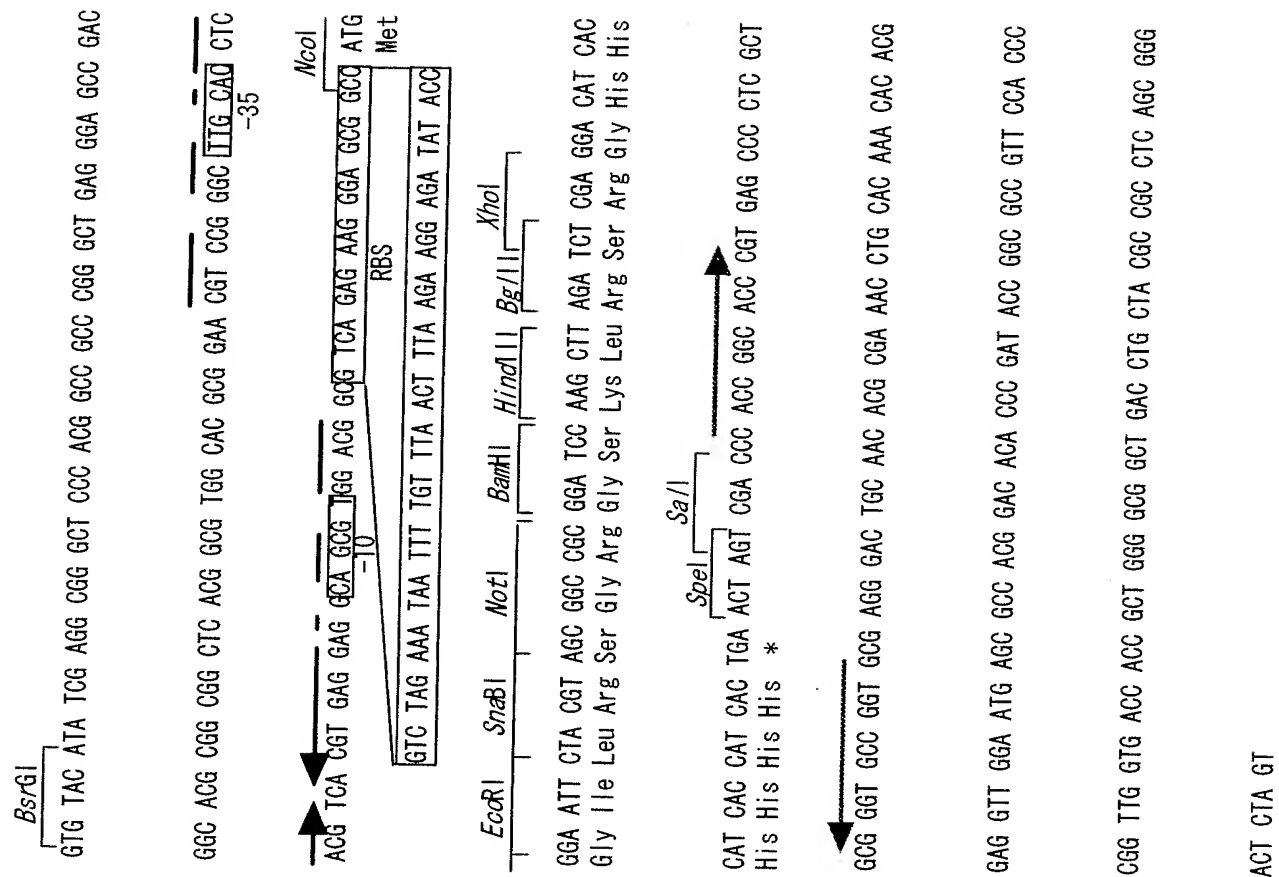


Fig. 9d

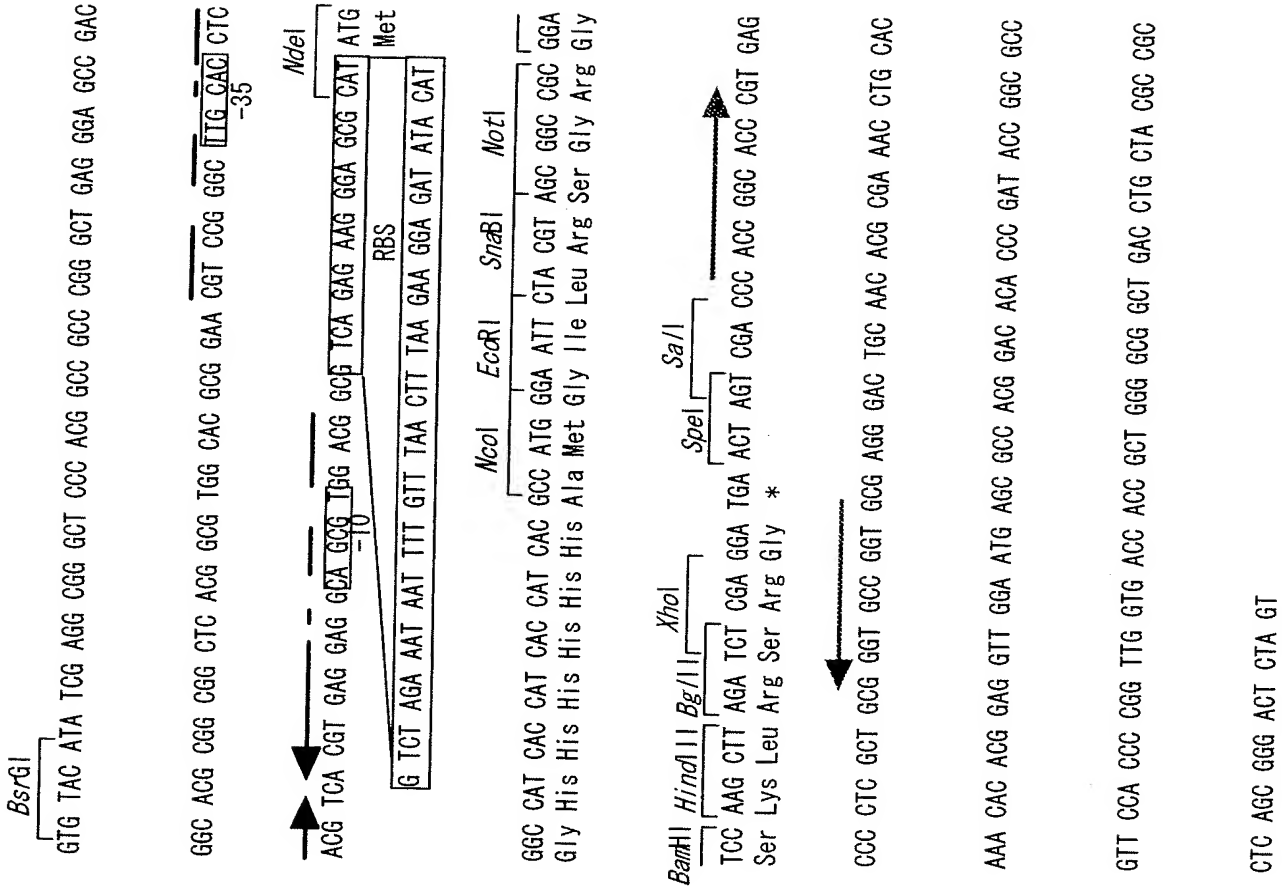


Fig. 9e

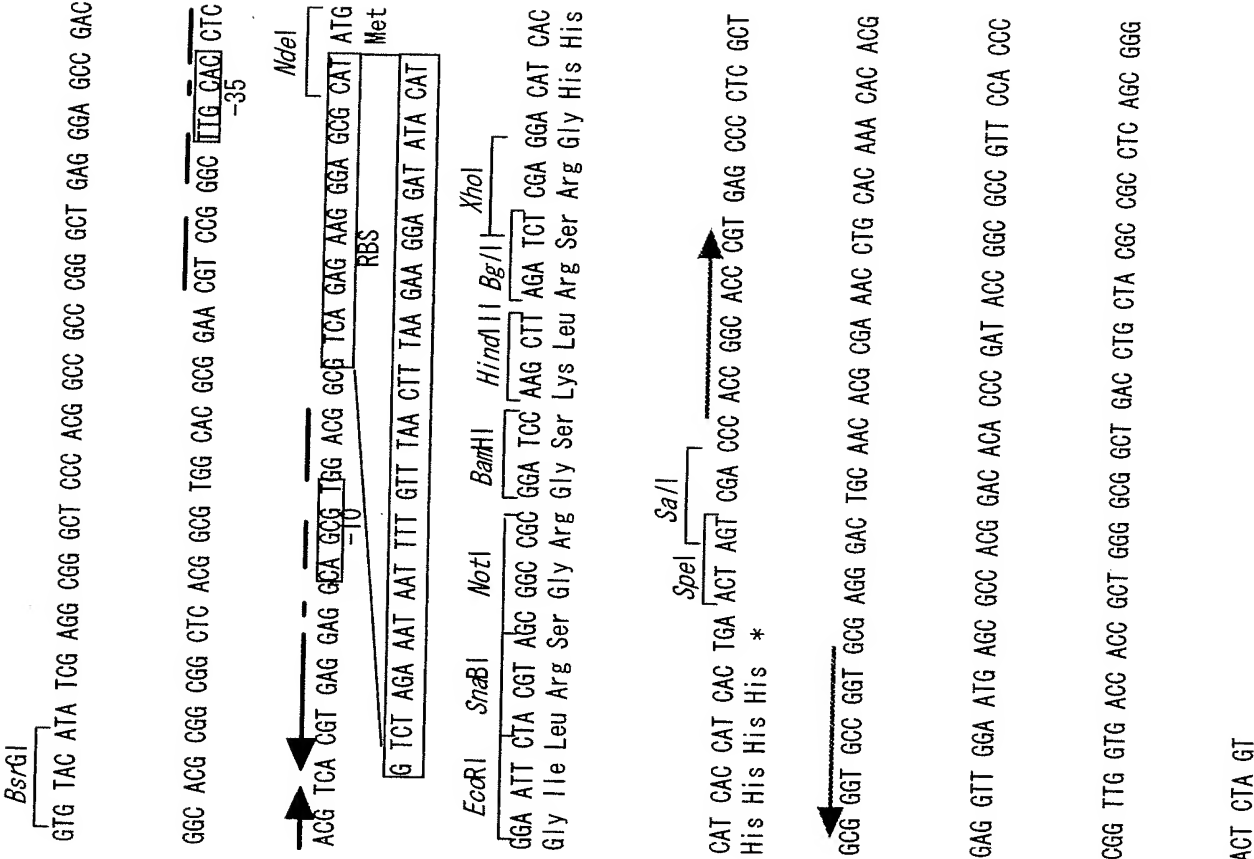


Fig. 10

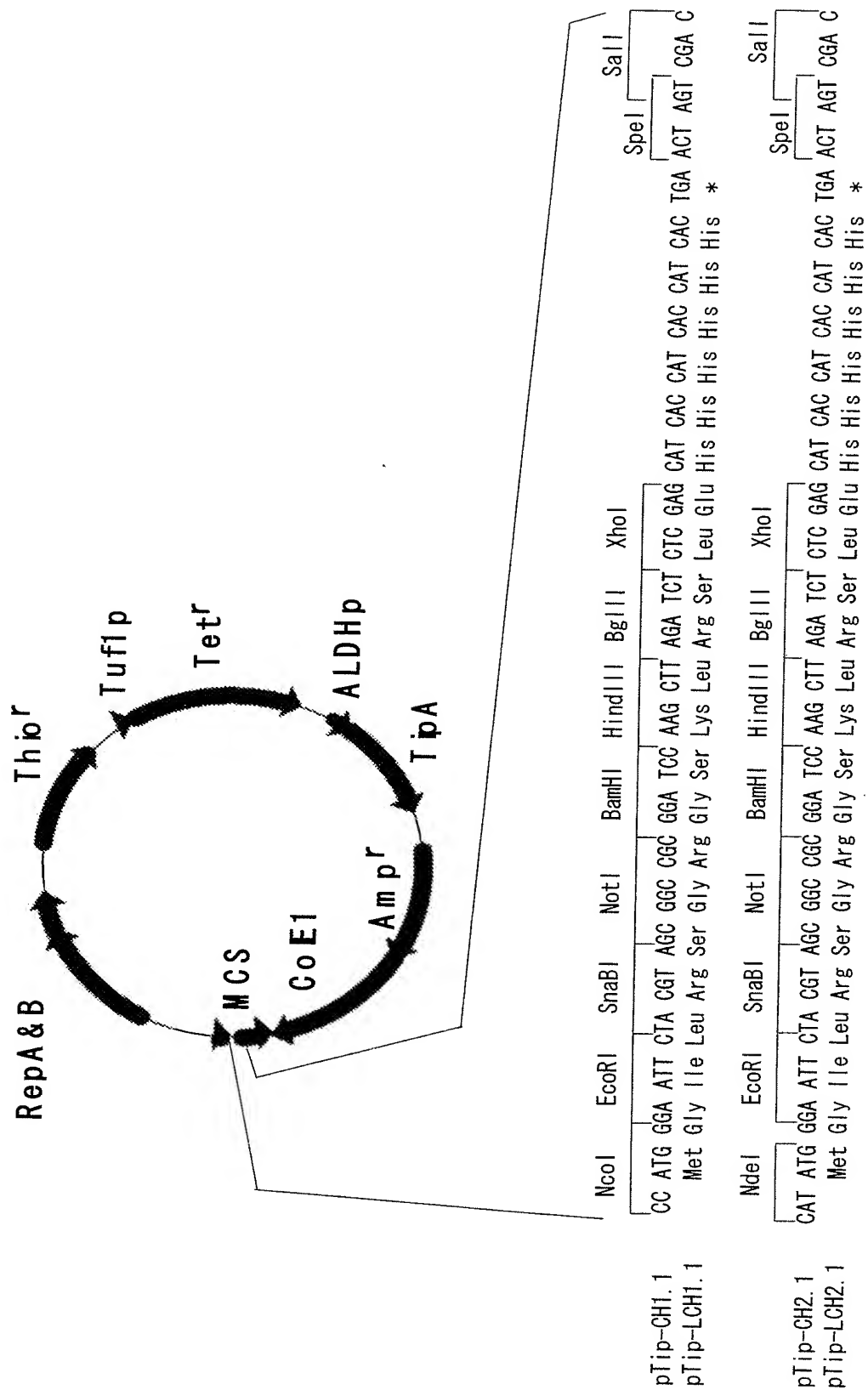


Fig. 11

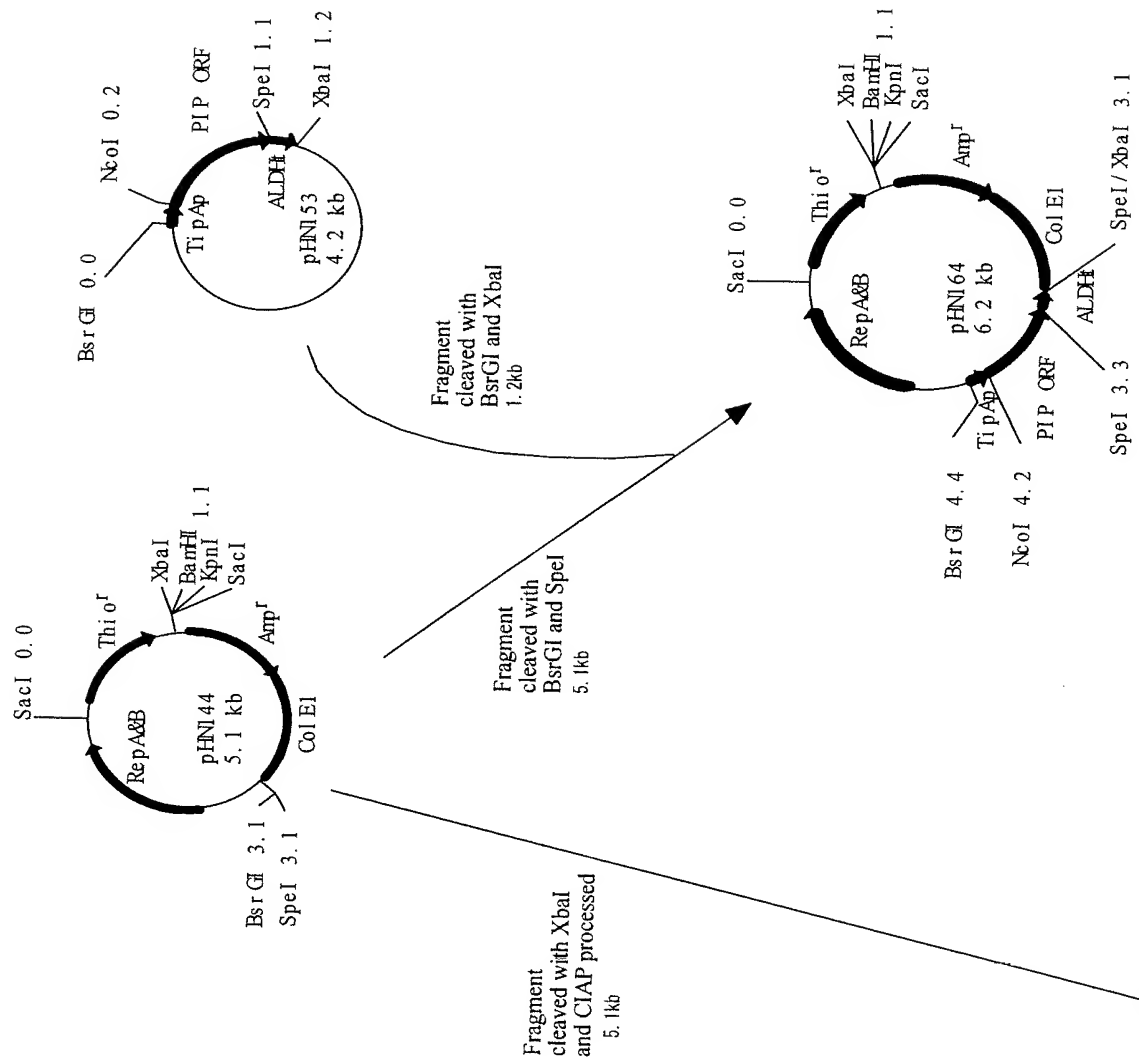


Fig. 11 (continued)

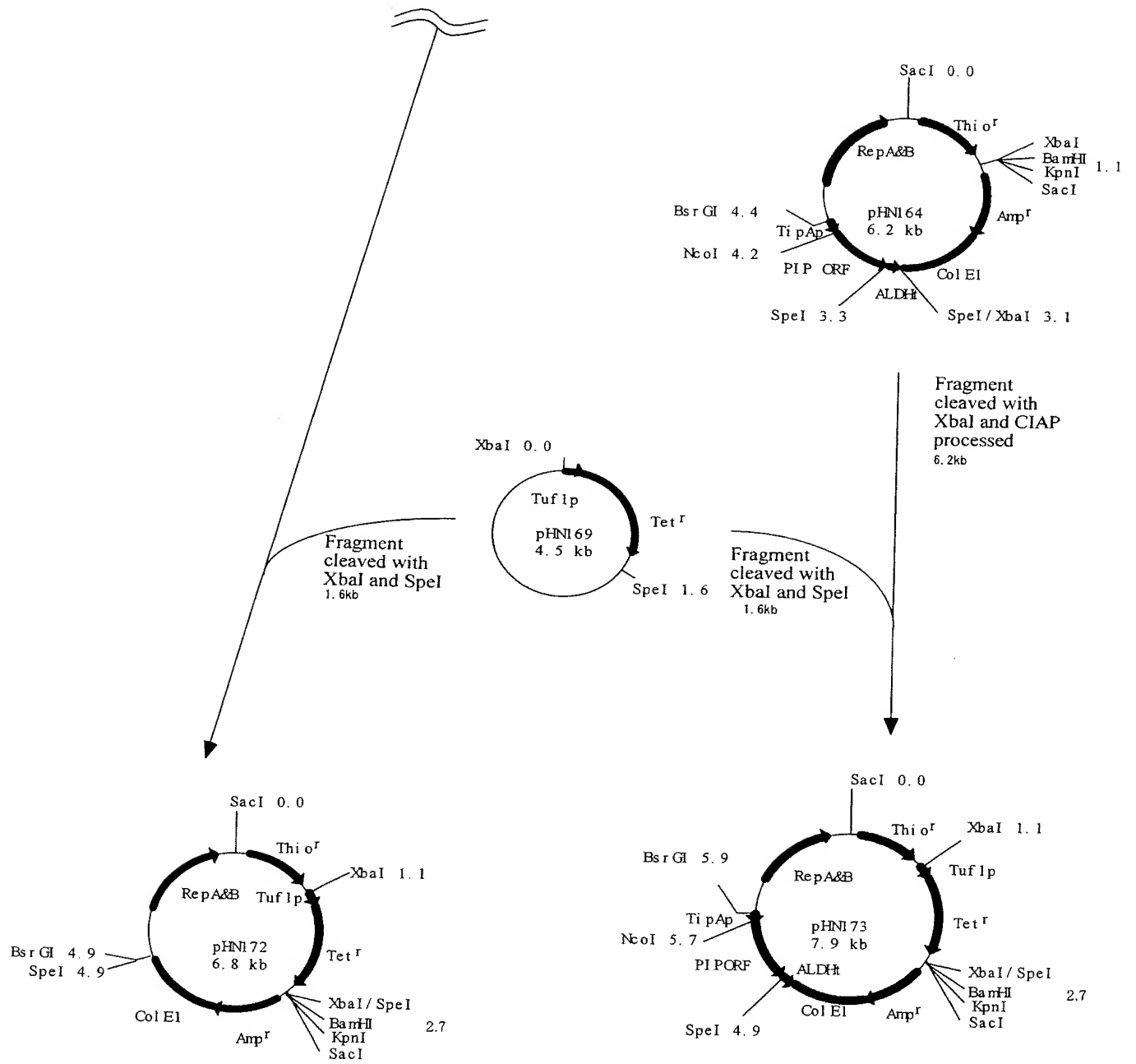


Fig. 12

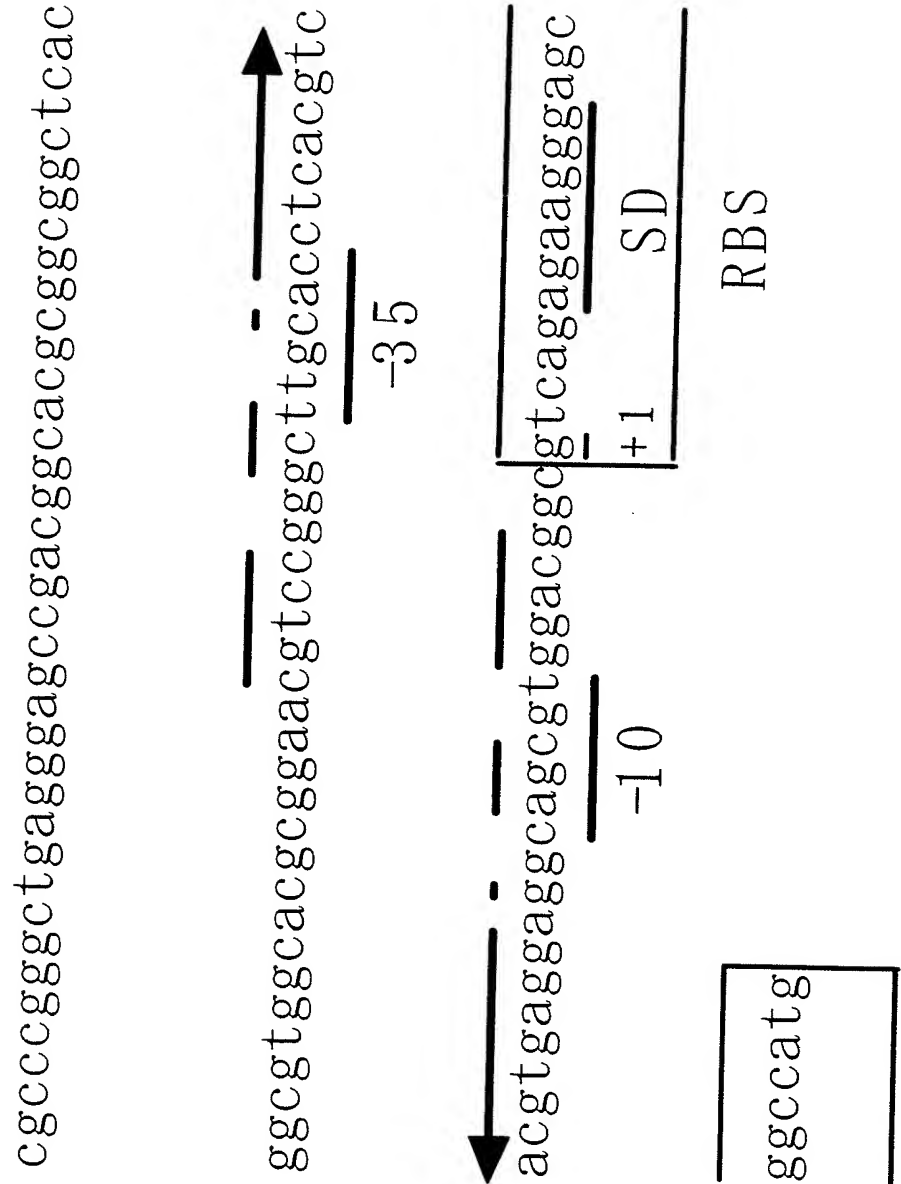


Fig. 13

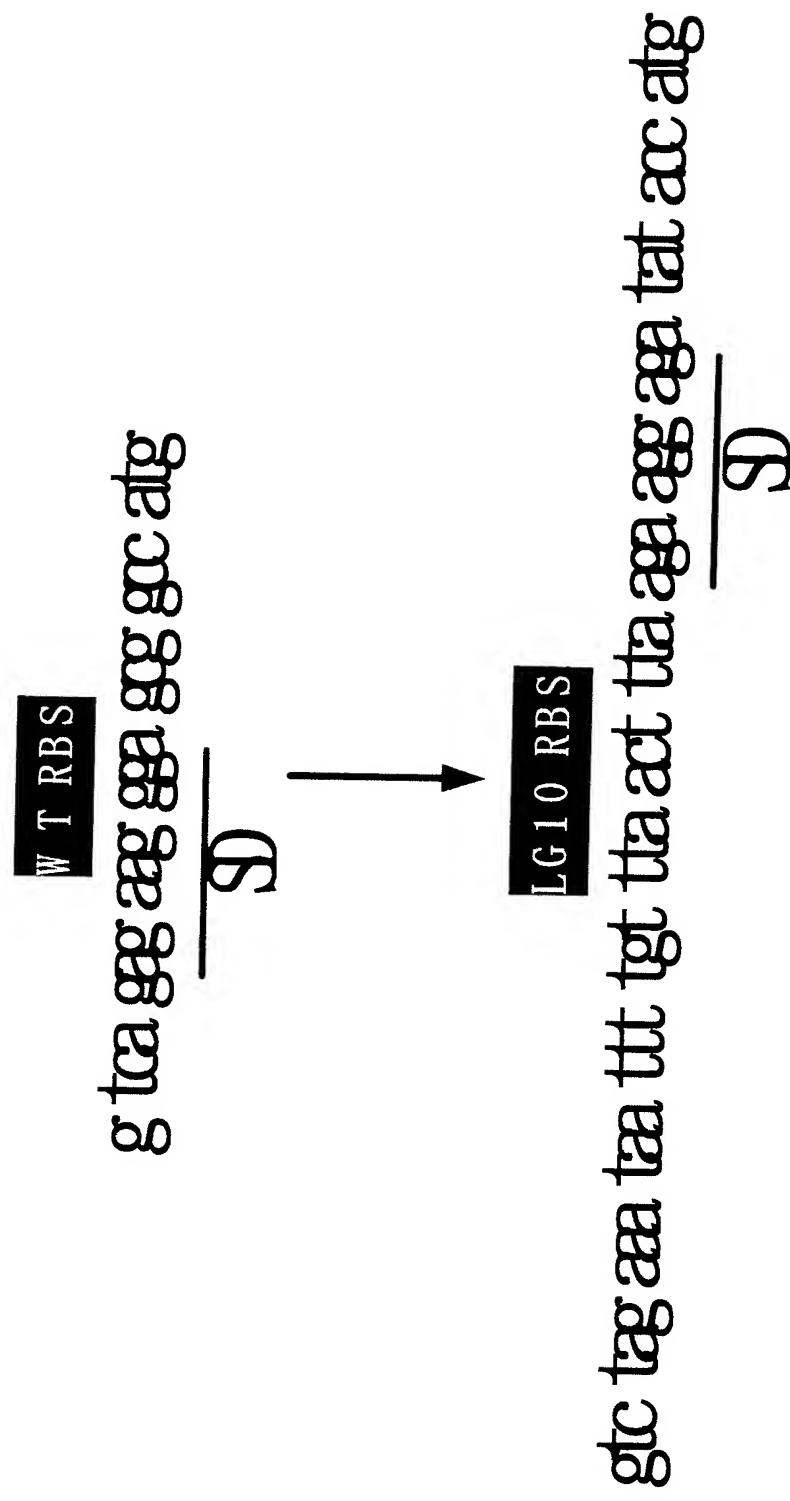


Fig. 14

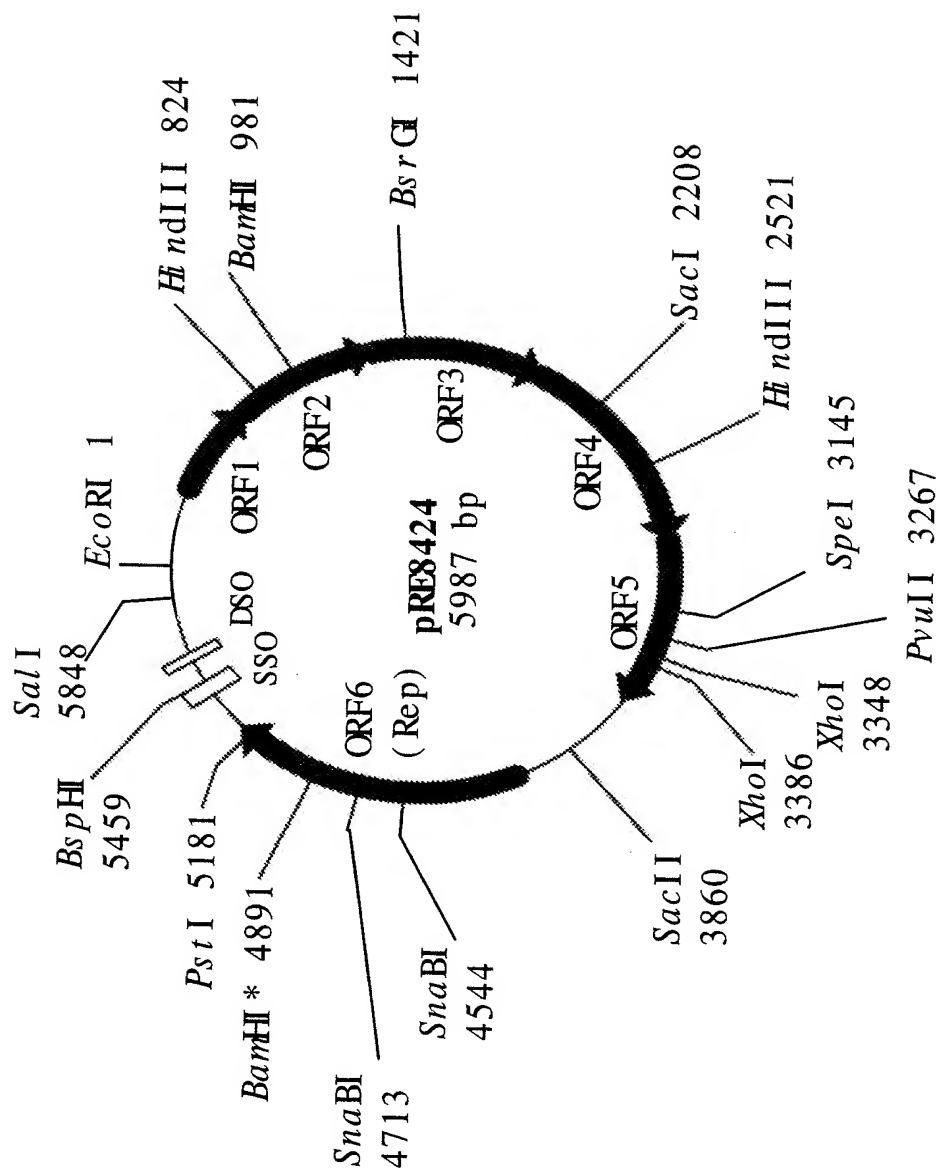


Fig. 15

	Motif IV	Motif I	Motif II	Motif III
Consensus	GLXXCGXXWCPXC	Xvt XTXRH	gXXgXXr aXe Xt XgXXn GwHXHXh Xi X	l aYYYYXXqX
pRE8424	68 GLRSCCKGW CPCC	26 MVTMVRH	33 GCDGYVRAVEI THCK-NGWHVHVHALL	53 LAAMLTKI AS
pAP1	138 GLHTCGSVWACPVC	27 MTLTQRH	33 GLVGYVRANEI THCK-HGWHVHSHVLI	67 I GNYWSKMQT
pBL1		76 MFVGIVRH	34 VEHTYSDYEVTDS WA-NGWHLHRNMLL	54 MATYLLAKGMS
pJ V1	38 GLVRCCRI WF-CPEC	27 LVFTTARH	77 GYI GWRRAAEVTRS KKNGYHPHLNLLV	80 LIHMLTKNQD
pIJ101	20 GLMRCCRI WLC-PVC	27 LVFTTARH	59 GYVGM RATEVTVQQI NGWPHI HAI V	69 LAEYI AKTQD
pSN22	20 GLMRCCRI WLC-PVC	27 LVFTTARH	59 GYVGM RATEVTVQQI NGWPHI HAI V	69 LAEYI AKTQD
	** ** . * . * . * *	: . . . * * *	: * . * . *	: . . . * . . . *
C-terminal motif				
Consensus	WkEyEXa XXgr Rai XWkr gl r			
pRE8424	276 WREFEFGSMGRRAI AWSRGLR			
pAP1	365 WKEYEKASFGRRALTWSKGLR			
pBL1	250 WREYEVGSKNLS-SWSRGAK			
pJ V1	352 WAQYEEALAGRRAI EWTRGLR			
pIJ101	288 WHEYERATRGRRAI EWTRYLR			
pSN22	288 WHEYERATKGRRAI EWTRYLR			
	* : : * . * * * : * : : :			

Fig. 16

pRE8424	5705	CGA CCG GA AGCC -GA- CCCCCT ----	AGGT GGGGGAG-
pAP1	2378	CAG CTT ATGC- G-GA -AA CTTT -	AGCA CAA----
pBL1	1314	GAAAT ACAA - CTGA -AC CTCT A CC A CC CA--	
pJVI	3375	CTG CC AA AA A CCGA -- CCCCCT ----	AGCT AAAGGGTT
pIJ101	1346	GAG CC AA AA A- CCGA -AC CTTT -	CCCA AGAAA--
pSN22	7805	GAC CC AA AA AC CTCT CC CCCCCT T--	CCCA AGAAA--

Nicking site

DSO

Fig. 17

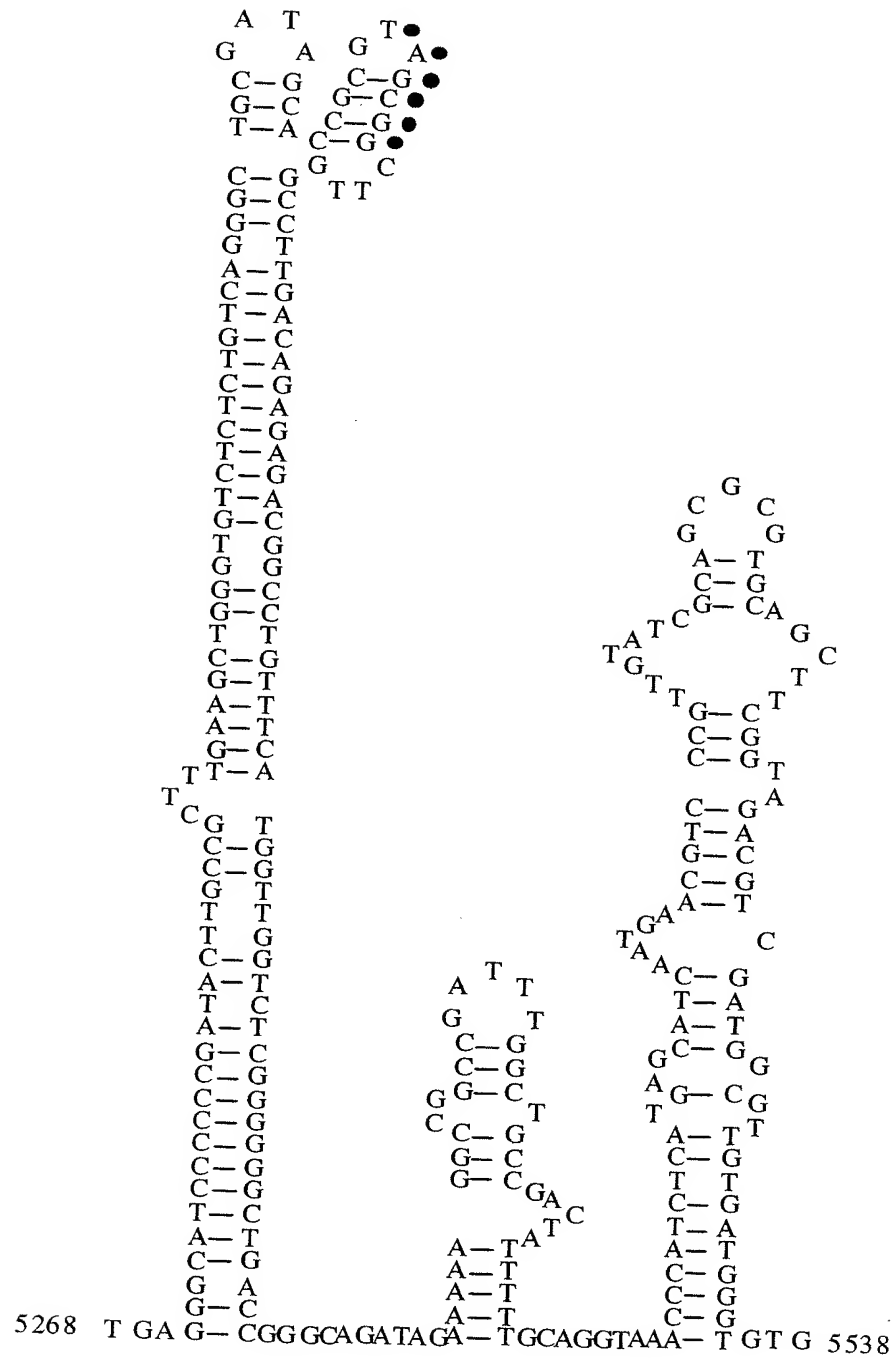


Fig. 18-1

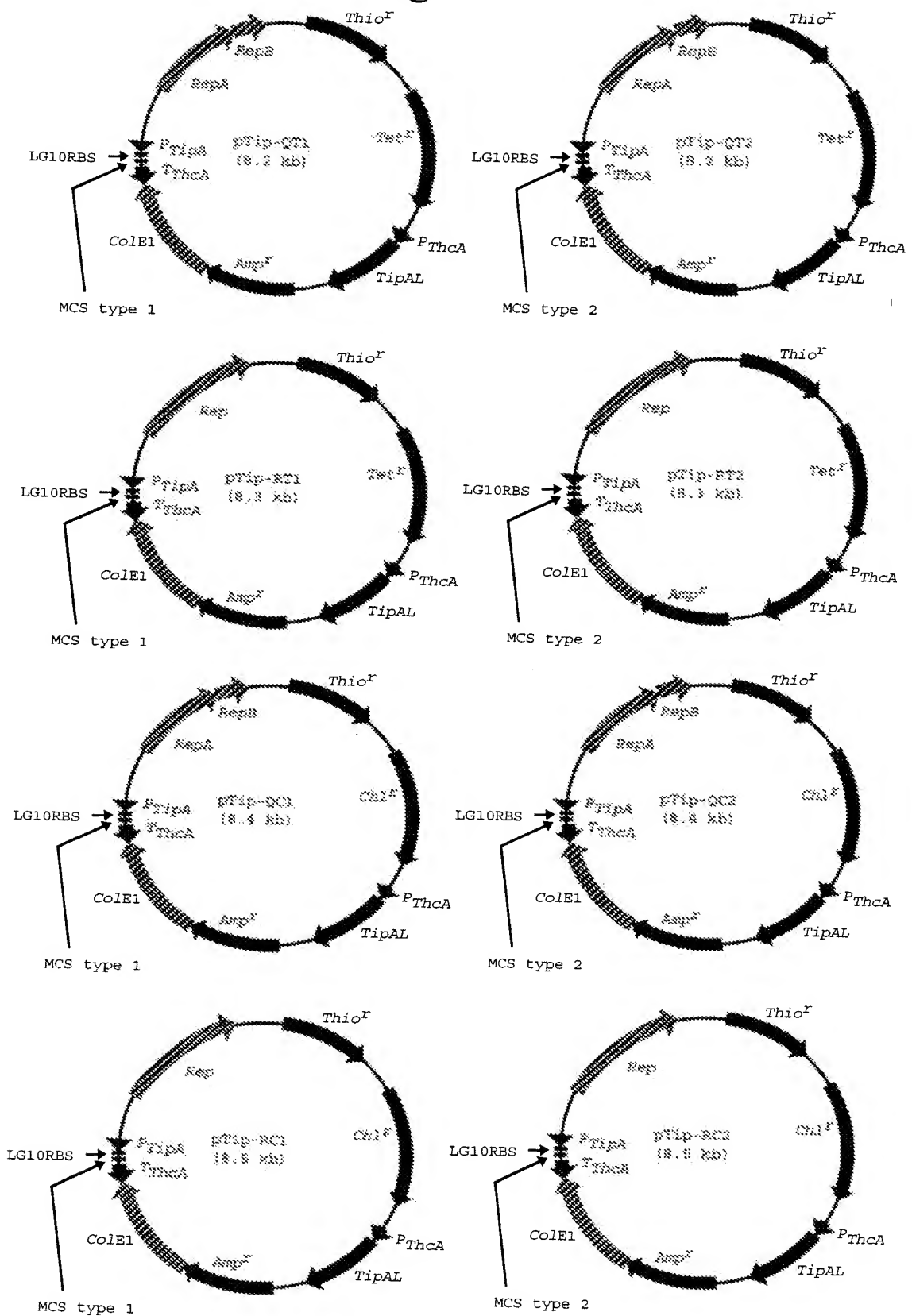


Fig. 18-2

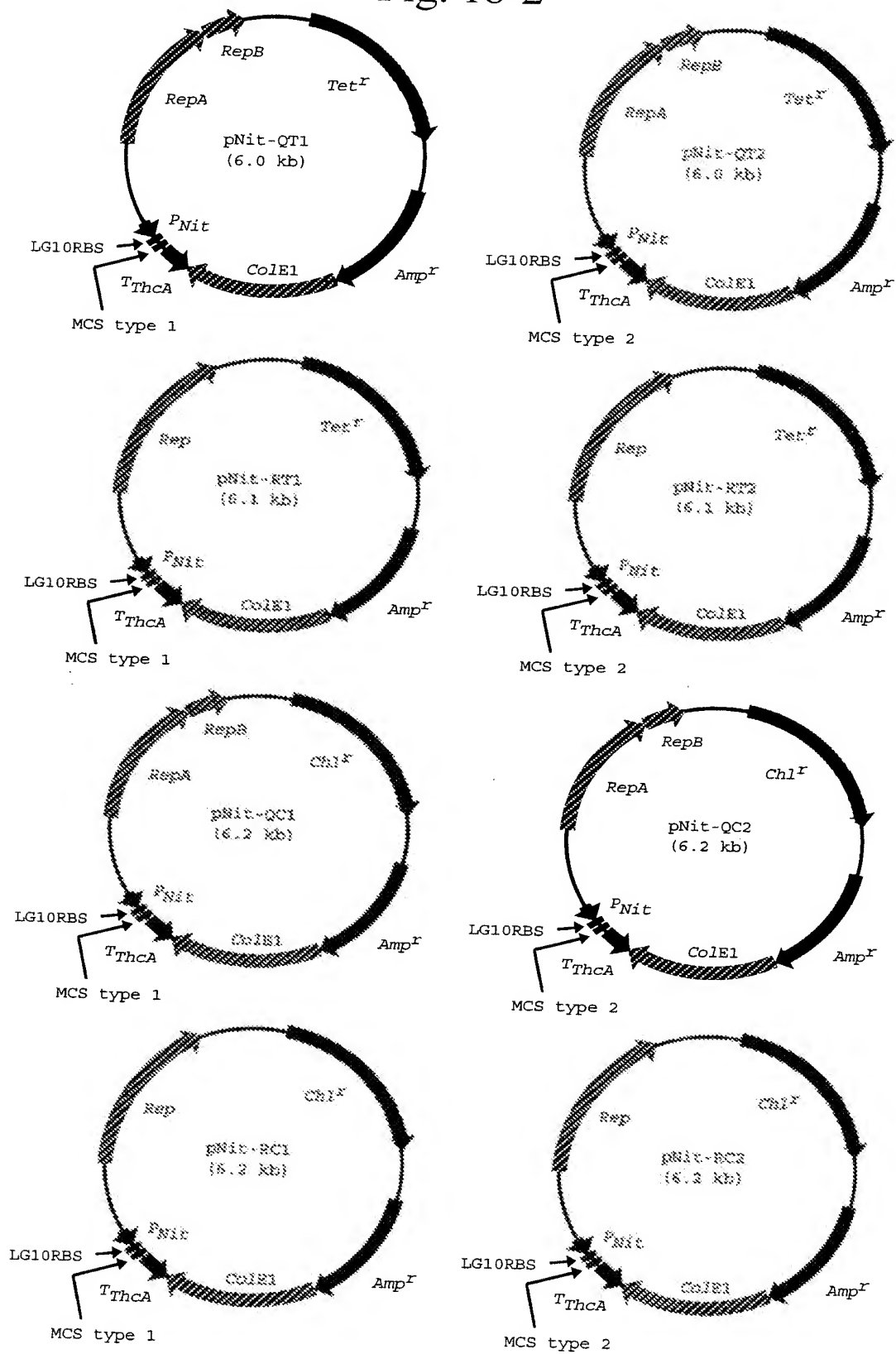


Fig. 20

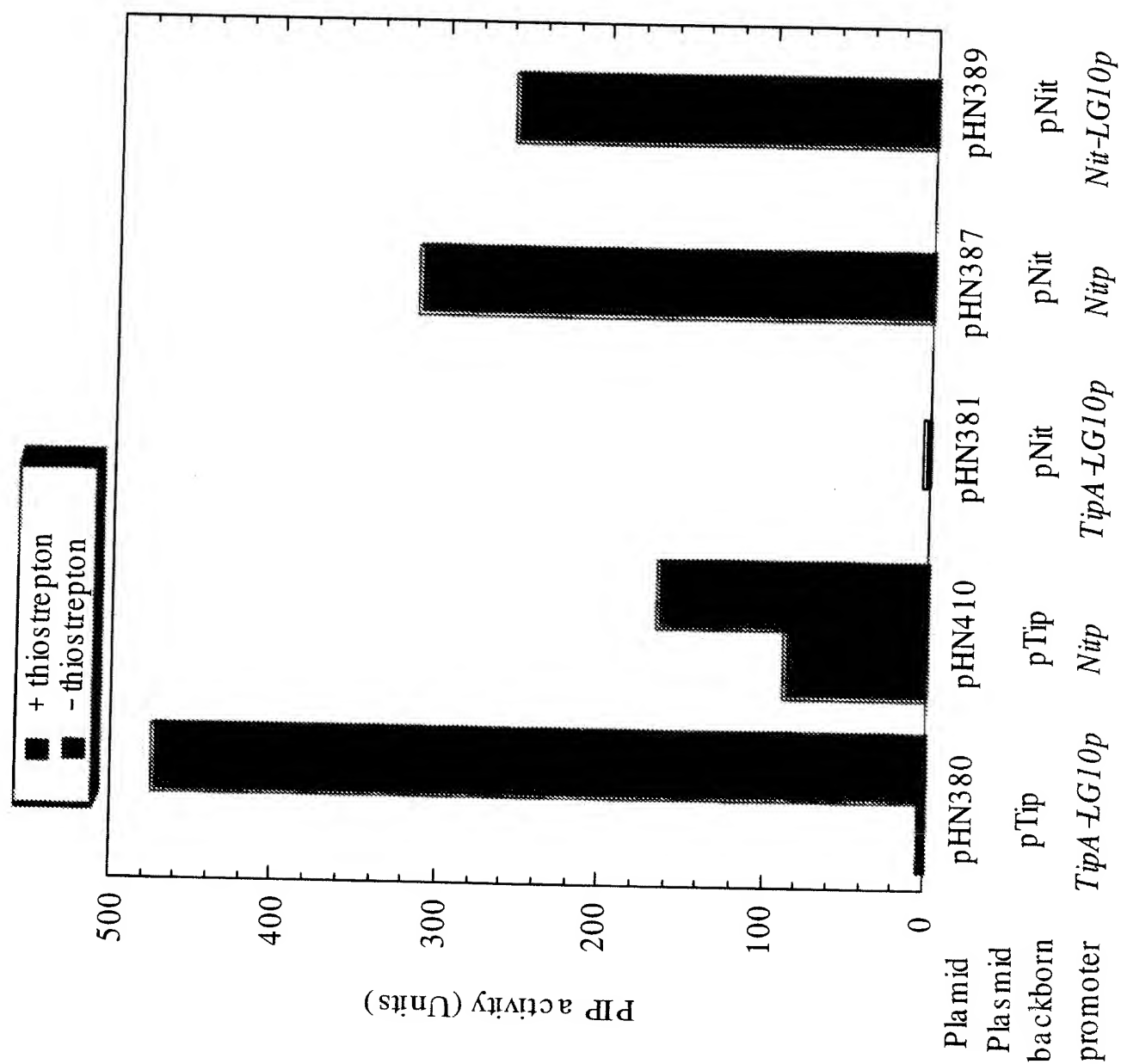


Fig. 21

